FIG.1

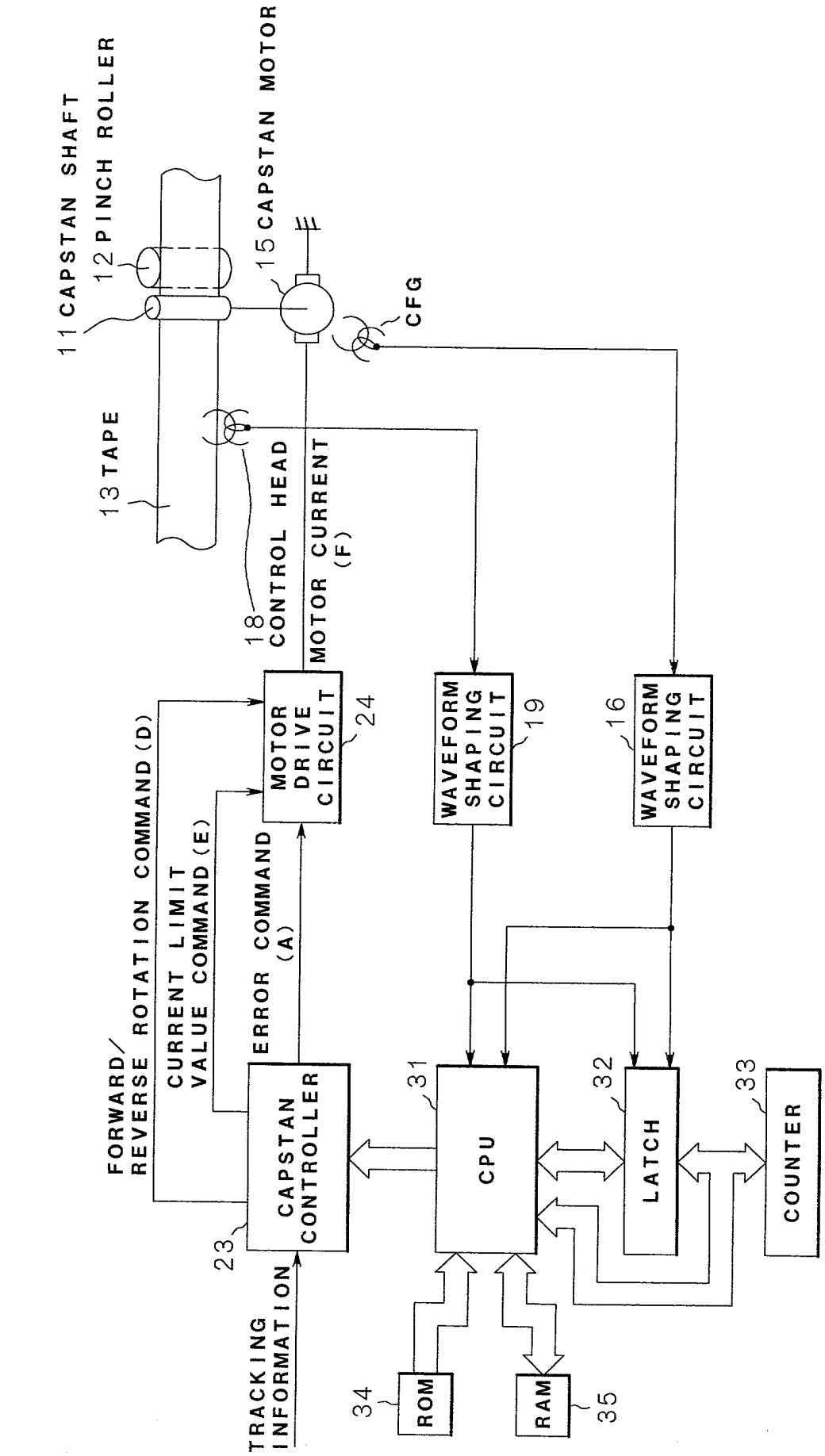

11 CAPSTAN SHAFT
12 PINCH ROLLER
15 CAPSTAN MOTOR
CFG
13 TAPE
18 CONTROL HEAD
MOTOR CURRENT (F)
MOTOR DRIVE CIRCUIT
24
WAVEFORM SHAPING CIRCUIT
19
16
WAVEFORM SHAPING CIRCUIT
FORWARD/ REVERSE ROTATION COMMAND (D)
CURRENT LIMIT VALUE COMMAND (E)
ERROR COMMAND (A)
CAPSTAN CONTROLLER
23
31
CPU
32
LATCH
33
COUNTER
TRACKING INFORMATION
34
ROM
RAM
35

FIG.2

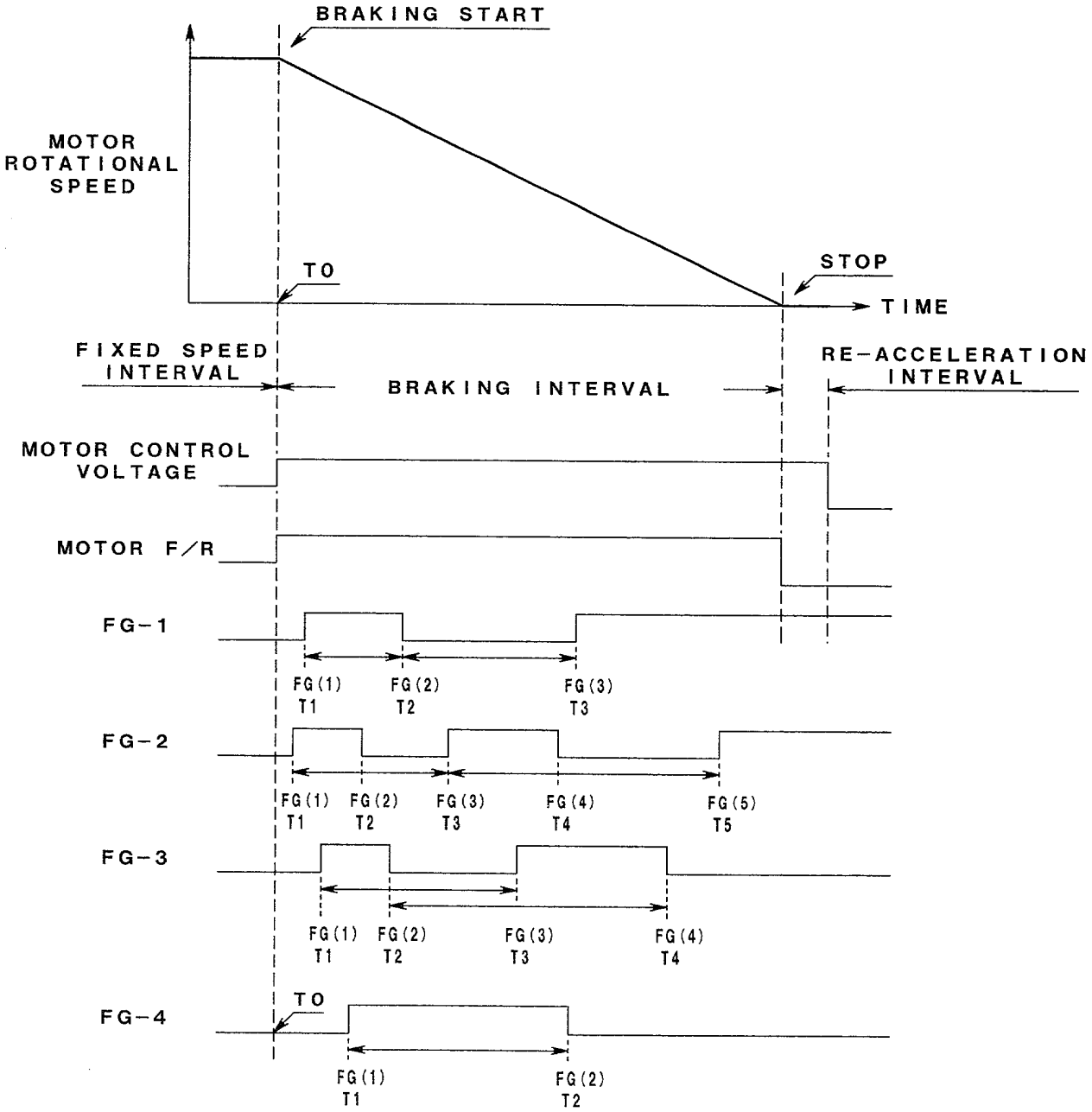

BRAKING START
MOTOR ROTATIONAL SPEED
TO
STOP
TIME
FIXED SPEED INTERVAL
BRAKING INTERVAL
RE-ACCELERATION INTERVAL
MOTOR CONTROL VOLTAGE
MOTOR F/R
FG-1
FG(1) T1
FG(2) T2
FG(3) T3
FG-2
FG(1) T1
FG(2) T2
FG(3) T3
FG(4) T4
FG(5) T5
FG-3
FG(1) T1
FG(2) T2
FG(3) T3
FG(4) T4
FG-4
TO
FG(1) T1
FG(2) T2

FIG.3

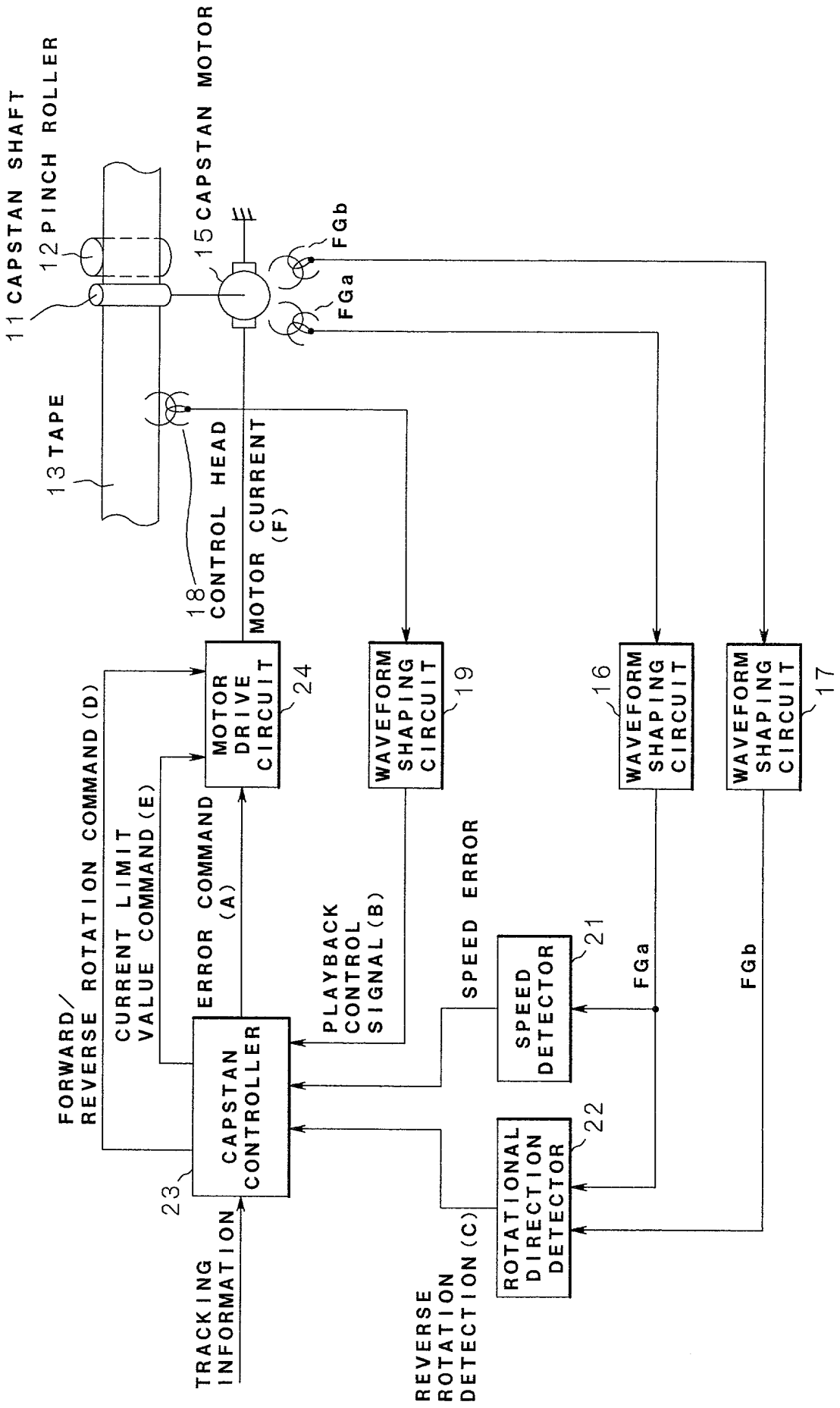
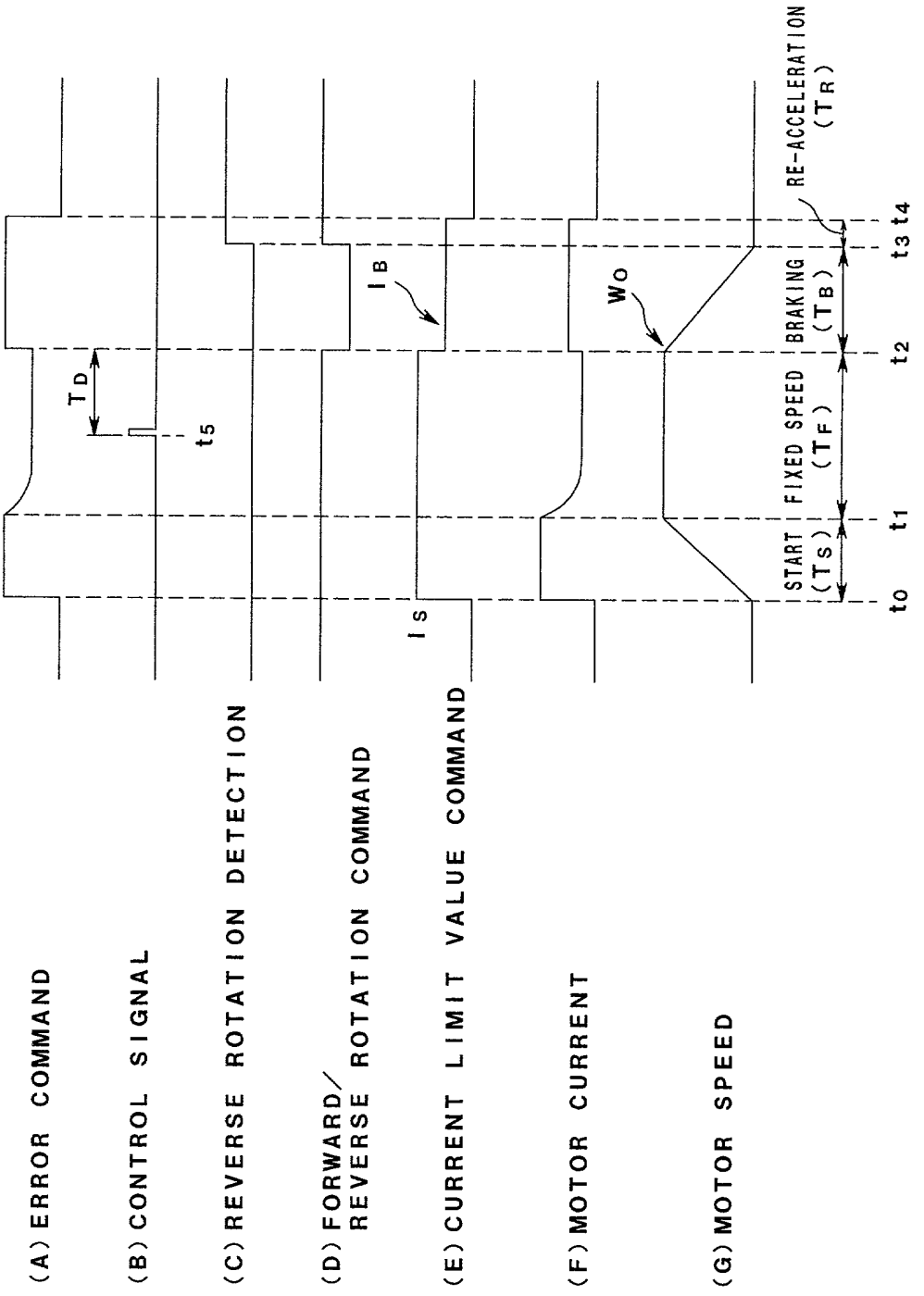

11 CAPSTAN SHAFT
12 PINCH ROLLER
15 CAPSTAN MOTOR
FGb
FGa
13 TAPE
18 CONTROL HEAD
MOTOR CURRENT (F)
MOTOR DRIVE CIRCUIT
24
WAVEFORM SHAPING CIRCUIT
19
16
WAVEFORM SHAPING CIRCUIT
17
WAVEFORM SHAPING CIRCUIT
FORWARD/ REVERSE ROTATION COMMAND (D)
CURRENT LIMIT VALUE COMMAND (E)
ERROR COMMAND (A)
PLAYBACK CONTROL SIGNAL (B)
SPEED ERROR
SPEED DETECTOR
21
FGa
FGb
CAPSTAN CONTROLLER
23
ROTATIONAL DIRECTION DETECTOR
22
TRACKING INFORMATION
REVERSE ROTATION DETECTION (C)

FIG.4


(A) ERROR COMMAND
(B) CONTROL SIGNAL
(C) REVERSE ROTATION DETECTION
(D) FORWARD/ REVERSE ROTATION COMMAND
(E) CURRENT LIMIT VALUE COMMAND
(F) MOTOR CURRENT
(G) MOTOR SPEED
TD
t5
IB
IS
WO
START (TS)
FIXED SPEED (TF)
BRAKING (TB)
RE-ACCELERATION (TR)
t0
t1
t2
t3 t4